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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,438	(09/30/2003	Jonathan A. Rowley	P-5645P1 2613 EXAMINER	
46851	7590	03/16/2006			
DAVID W.		•	NAFF, DAVID M		
BECTON, D		IN AND COMPANY 1C110	,	ART UNIT	PAPER NUMBER
FRANKLIN LAKES, NJ 07417				1651	

DATE MAILED: 03/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)	
Office Action Comments	10/673,438	ROWLEY ET AL.	
Office Action Summary	Examiner	Art Unit	
	David M. Naff	1651	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 30 Se	eptember 2003.		
<u>_</u>	action is non-final.		
3) Since this application is in condition for allowan		secution as to the merits is	
closed in accordance with the practice under E	·		
Disposition of Claims			•
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	n from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) 1-27 are subject to restriction and/or e	lection requirement.		
· · · · · · · · · · · · · · · · · · ·	•		
Application Papers			
9) The specification is objected to by the Examiner			
10) The drawing(s) filed on is/are: a) acce	•		
Applicant may not request that any objection to the c	• ,	• •	
Replacement drawing sheet(s) including the correcti			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
a) All b) Some * c) None of:			,
 Certified copies of the priority documents 	have been received.		
Certified copies of the priority documents	have been received in Application	on No	
Copies of the certified copies of the prior	ity documents have been receive	d in this National Stage	
application from the International Bureau	(PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of	of the certified copies not receive	d.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te atent Application (PTO-152)	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	асы Аррікалоп (РТО-152)	
			

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Election/Restrictions

Claims in the application are 1-27.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-8, drawn to a method of making a cell culture environment, classified in class 435, subclass 174.
- II. Claims 9-18, drawn to a cell culture environment and array comprised by the environment, classified in class 435, subclass 325.
- III. Claim 19, drawn to a method of culturing cells, classified in class 435, subclass 395.
 - IV. Claims 20-24, drawn to a method of assaying cellular function, classified in class 435, subclass 29.
 - V. Claim 25, drawn to a method of making a cell-based transplant, classified in class 424, subclass 423.
 - VI. Claims 26 and 27, drawn to a kit, classified in class 435, subclass 283.1.

The inventions are independent or distinct, each from the other because:

Inventions I and II and VI are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process

(MPEP § 806.05(f)). In the instant case, the cell culture environment

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of invention II and kit of invention VI can be prepared by a method materially different from the method of invention I. The cell culture environment can be produced by not requiring a separate step of forming pores after crosslinking to form a hydrogel as required by invention I such as by forming pores during crosslinking to form the hydrogel. The kit can be produced without crosslinking and without a biologically active molecule non-covalently incorporated into the porous hydrogel as required by invention I.

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Inventions II and III, IV and V are related as product and process of use. The inventions can be shown to be distinct if either 10 or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the cell culture environment of invention II can be used 15 in a materially different process than culturing cells as required by invention III, assaying cellular function as required by invention IV and producing a cell-based in vivo transplant as required by invention The cell culture environment of invention II can be used to deliver in vitro or in vivo a biologically active molecule other than 20 cells without cells being seeded on the cell culture environment as required by inventions III, IV and V.

The methods of inventions I, III, IV and V are distinct from each other since each can be carried without any other. The making a cell culture environment as required by invention I method can be performed

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without culturing cells as required by invention III, without assaying as required by invention IV and without producing a transplant as required by invention V. Culturing cells of invention III can be performed without forming pores after crosslinking as in invention I, without assaying as in invention IV and without forming a transplant as in invention V. Assaying of invention IV can be performed without pore formation after crosslinking as in invention I, without using conditions for culturing cells as would be required by invention III and without forming a transplant as required by invention V. Forming a transplant as required by invention V. Forming conditions after crosslinking as in invention I, without using conditions that do not form a transplant as encompassed by invention III and without assaying as required by invention IV.

The cell culture environment of invention II and the kit of invention VI can each be used without the other. The cell culture environment does not have be in the form of a kit, and the kit does not require the biologically active molecule to be non-covalently attached to the porous hydrogel.

Examining inventions I-VI together will be a serious burden due to different searches and considerations for applying prior art required due to differences in scope and content of the claims of the different inventions.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in

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view of their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a

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request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

30 Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M. Naff Primary Examiner Art Unit 1651

DMN 3/14/06

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